

Downer Cow Syndrome

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Unit: Downer Cow Syndrome

Lesson:1

Introduction

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Recumbent cow / downer cow

- A cattle which is recumbent, unable to raise for more than 24 hrs after initial recumbency.
- Secondary recumbency due to pressure damage to the muscles and nerves.



Recumbent cows classification

- Metabolic disorder
- Abdominal dysfunction
- Infectious causes
- Intoxication
- Musculoskeletal & nervous disorders









Major Elements Involved

- Calcium
- Phosphorus
- → Magnesium
- Potassium
- Glucose
- → Vit B12
- Niacin
- ◆ Cobalt









Occurrence

- Mostly post parturient
- → Complication of Hypocalcemia
- During pregnancy (last trimester)- lack of energy, malnutrition
- Lactation –any time



Occurrence

- Sudden fall down and prolonged recumbency
- Ischemic necrosis to muscles in hind quarter
- Pressure injury to the radial and peroneal nerves Knuckling
- Pressure injury vulnerable to obturator nerve and sciatic nerve during delivery



Recumbent Cows

In Pregnancy -----

- → Rule out status of pregnancy in recumbent cows -
- Hydroallantois
- **→** Torsion
- → Macerated / mummified fetus etc..







Unusual Downers / Recumbent cows

- → Heifers Anemia, Not dewormed cases
- **→** Rumen Impaction
- ◆ Over feeding /grazing
- **→** Ephemeral fever









Classification of Downers

- Alert
- ◆ Non Alert









Alert Downers

- ◆ Feeding Normal
- Water intake Normal
- Defecation
- Urination
- ◆ Attempt to stand on stimulation
- Rumination



Alert recumbent animal





Alert Downers

Metabolic disorders (Ca, P, Mg, K)

Musculoskeletal involvement

- → Pelvic fracture
- → Obturator nerve paralysis
- **→** Gastrocnemius muscle rupture
- → Peroneal nerve paralysis
- **→** Dislocation of limbs
- Fracture



Non Alert Downers- signs

- Lateral recumbency
- if Sternal place chin on ground
- Temp
- Elevated heart rate
- Pellety dung / absence of dung
- Anorectic
- Respiratory distress
- Unable to lift Head
- Bloat



Non Alert Downer- conditions

- → Anemia Blood protozoan diseases
- Acidosis
- Poisoning
- Peritonitis
- Botulism
- → Toxemia, Septicemia
- Mastitis
- Metritis









Thank you